## Content

### Pressure valves

<table>
<thead>
<tr>
<th>Pressure relief valve direct acting</th>
<th>Symbol</th>
<th>Type</th>
<th>Q&lt;sub&gt;max&lt;/sub&gt; (l/min)</th>
<th>P&lt;sub&gt;max&lt;/sub&gt; (bar)</th>
<th>Cavity</th>
<th>Brochure no.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>DB06C-01</td>
<td>20</td>
<td>350</td>
<td>U</td>
<td>FC06-2</td>
<td>5.141.0</td>
</tr>
</tbody>
</table>

### Flow valves

<table>
<thead>
<tr>
<th>2-way flow control valve</th>
<th>Symbol</th>
<th>Type</th>
<th>Q&lt;sub&gt;max&lt;/sub&gt; (l/min)</th>
<th>P&lt;sub&gt;max&lt;/sub&gt; (bar)</th>
<th>Cavity</th>
<th>Brochure no.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>SR06-01</td>
<td>15</td>
<td>350</td>
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<td>FC06-2</td>
<td>5.142.0</td>
</tr>
</tbody>
</table>

### Check valves

<table>
<thead>
<tr>
<th>Check valve with integrated pressure relief</th>
<th>Symbol</th>
<th>Type</th>
<th>Q&lt;sub&gt;max&lt;/sub&gt; (l/min)</th>
<th>P&lt;sub&gt;max&lt;/sub&gt; (bar)</th>
<th>Cavity</th>
<th>Brochure no.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>RV06A-01</td>
<td>20</td>
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<td>U</td>
<td>FC06-2</td>
<td>5.143.0</td>
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<tr>
<td></td>
<td>RV06C-01</td>
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<td>U</td>
<td>FC06-3</td>
<td>5.145.0</td>
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### Directional poppet valves

<table>
<thead>
<tr>
<th>2/2-poppet valve normally closed</th>
<th>Symbol</th>
<th>Type</th>
<th>Q&lt;sub&gt;max&lt;/sub&gt; (l/min)</th>
<th>P&lt;sub&gt;max&lt;/sub&gt; (bar)</th>
<th>Cavity</th>
<th>Brochure no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Normally closed</td>
<td>WS06Z-01</td>
<td>20</td>
<td>350</td>
<td>U</td>
<td>FC06-2</td>
<td>5.146.0</td>
</tr>
<tr>
<td>Normally open</td>
<td>WS06Y-01</td>
<td>20</td>
<td>350</td>
<td>U</td>
<td>FC06-2</td>
<td>5.147.0</td>
</tr>
<tr>
<td>Normally closed</td>
<td>WS06ZR-01</td>
<td>20</td>
<td>350</td>
<td>U</td>
<td>FC06-2</td>
<td>cf</td>
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<tr>
<td>Normally closed</td>
<td>WS06YR-01</td>
<td>20</td>
<td>350</td>
<td>U</td>
<td>FC06-2</td>
<td>cf</td>
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Part no. 2610333  
Part no. 2610394  
Part no. 2610333

Brochure no. 5.140.0  
Brochure no. 5.141.0  
Brochure no. 5.142.0  
Brochure no. 5.143.0  
Brochure no. 5.144.0  
Brochure no. 5.145.0  
Brochure no. 5.146.0  
Brochure no. 5.147.0  
Brochure no. 5.148.0
### Directional spool valves

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Type</th>
<th>( Q_{\text{max}} ) (l/min)</th>
<th>( p_{\text{max}} ) (bar)</th>
<th>cavity</th>
<th>Brochure no.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>WK06W-01</td>
<td>10</td>
<td>350</td>
<td>U</td>
<td>FC06-2</td>
</tr>
<tr>
<td></td>
<td>WK06V-01</td>
<td>15</td>
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<td>U</td>
<td>FC06-2</td>
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<tr>
<td></td>
<td>WK06C-01</td>
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<td>FC06-3</td>
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<td></td>
<td>WK06Y-01</td>
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<td>U</td>
<td>FC06-4</td>
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<tr>
<td></td>
<td>WK06E-01</td>
<td>11</td>
<td>350</td>
<td>U</td>
<td>FC06-4</td>
</tr>
<tr>
<td></td>
<td>WK06G-01</td>
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<td>350</td>
<td>U</td>
<td>FC06-4</td>
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<td></td>
<td>WK06H-01</td>
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<td>350</td>
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<td>FC06-4</td>
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<tr>
<td></td>
<td>WK06J-01</td>
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<td>350</td>
<td>U</td>
<td>FC06-4</td>
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</table>

### Coils for Minivalves

<table>
<thead>
<tr>
<th>Type (Part No.)</th>
<th>Nominal voltage</th>
<th>Electrical connection</th>
<th>Brochure No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plug Type G</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>2610160</td>
<td>12 VDC</td>
<td>Plug to EN 175301-803 Form B, DIN 43650B</td>
<td>5.155.0</td>
</tr>
<tr>
<td>2610161</td>
<td>24 VDC</td>
<td>Plug for DC coils Part No. 2600570</td>
<td>5.155.0</td>
</tr>
<tr>
<td>2610156</td>
<td>105 VDC</td>
<td>Plug with rectifier for AC coils Part No. 2600582</td>
<td>5.155.0</td>
</tr>
<tr>
<td>2610159</td>
<td>205 VDC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2610156 + 2600582*</td>
<td>115 VAC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2610159 + 2600582*</td>
<td>230 VAC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>*Plug with rectifier (see right side)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Plug Type N</td>
<td></td>
<td>Deutsch plug, axial</td>
<td>5.155.0</td>
</tr>
<tr>
<td>2610149</td>
<td>12 VDC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2610150</td>
<td>24 VDC</td>
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<tr>
<td>Plug Type L</td>
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<td>12 VDC</td>
<td>5.155.0</td>
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<tr>
<td>2610151</td>
<td>12 VDC</td>
<td>Coil with 2 leadwires 0.75mm², 450 mm long</td>
<td>5.155.0</td>
</tr>
<tr>
<td>2610162</td>
<td>24 VDC</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Pressure Relief Valve
Poppet type, direct acting
Cartridge-Minivalve – 350 bar
DB06C-01

FEATURES
- All exposed surfaces corrosion-proof
- All valve parts made of high-strength steel with hardened and ground components to ensure minimal wear and extend service life
- Fast response
- Adjustable under full system pressure
- Adjustable over the u.m. pressure range
- Various pressure ranges up to 350 bar
- Poppet type valve with damped characteristics

SPECIFICATIONS
Operating pressure: max. 350 bar
Nominal flow: max. 20 l/min
Pressure ranges:
- 0 up to 125 bar
- 0 up to 210 bar
- 35 up to 350 bar
Leakage: leakage-free, < max. 0.35 cm³/min at 75% nominal pressure
Temperature range of operating fluid:
Min. – 30°C up to max. +100°C
Ambient temperature range:
Min. – 30°C up to max. + 60°C
Fluid: Hydraulic fluid to DIN 51524 T1 + T2
Viscosity range:
min. 7.4 mm²/s up to max. 420 mm²/s
Filtration: Class 21 / 19 /16 according to ISO 4406 or cleaner
MTTFₐ:
150 years
Installation:
no orientation restrictions
Materials:
Valve body: steel with hardened work surfaces
Piston: hardened and ground steel
Seals: NBR (Standard) FKM (optional, temperature range -20°C up to +120°C)
Back-up rings: TPE-E
Cavity:
FC06-2
Weight:
0.068 kg

FUNCTION
The Pressure relief valve DB06C is a direct acting, spring loaded valve with damped characteristics. Its job is to limit the pressure in the system. The spring acts with a certain force on the piston and presses it on the valve seat. On the opposite side the system pressure works at port 1. If the hydraulic force is lower than the spring pressure the valve remains closed. Only if the force is higher, the valve opens and the flow will be let to port 2 (tank). If the system pressure is equal to the spring pressure the valve closes again.

Attention: Pressure at port 2 increases the opening pressure! If ports are interchanged or the pressure adjustment is higher than the operating pressure, the function of the valve is invalid.
MODEL CODE

Basic model
Pressure relief valve, direct acting

Type
01 = Standard

Body & ports
C = cartridge only
*versions in line bodies on request

Seals
N = NBR (Standard)
V = FKM (optional)

Pressure range
180 = 0 up to 125 bar (1800PSI)
300 = 0 up to 210 bar (3000PSI)
500 = 35 up to 350 bar (5000PSI)

Adjustment option
V = adjustable by tool

Setting
omission = 50% of max. Pressure
300 = factory preset pressure in PSI /(10)
Other pressures on request

Standard models

<table>
<thead>
<tr>
<th>Name</th>
<th>Part No.</th>
<th>Material</th>
<th>Ports</th>
<th>Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>DB06C-01-C-N-180V</td>
<td>2610322</td>
<td>steel, zinc plated</td>
<td>G1/4</td>
<td>420 bar</td>
</tr>
<tr>
<td>DB06C-01-C-N-300V</td>
<td>2610324</td>
<td>Alu, anodized</td>
<td>G1/4</td>
<td>245 bar</td>
</tr>
<tr>
<td>DB06C-01-C-N-500V</td>
<td>2610342</td>
<td>other line bodies</td>
<td>on request</td>
<td></td>
</tr>
</tbody>
</table>

*Line bodies

<table>
<thead>
<tr>
<th>Code</th>
<th>Part No.</th>
<th>Material</th>
<th>Ports</th>
<th>Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>FH062-SB2</td>
<td>3740528</td>
<td>steel, zinc plated</td>
<td>G1/4</td>
<td>420 bar</td>
</tr>
<tr>
<td>FH062-AB2</td>
<td>3741297</td>
<td>Alu, anodized</td>
<td>G1/4</td>
<td>245 bar</td>
</tr>
</tbody>
</table>

Seal kits

<table>
<thead>
<tr>
<th>Code</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seal kit-NBR</td>
<td>2610184</td>
</tr>
<tr>
<td>Seal kit-FKM</td>
<td>2610185</td>
</tr>
</tbody>
</table>

PERFORMANCE

Measured at 28 mm²/s and T oil = 38°C
Flow Regulator
Spool type, direct acting
Cartridge-Minivalve – 350 bar
SR06-01

FEATURES
- All exposed surfaces corrosion-proof
- Pressure compensated flow control of consumers
- All valve parts made of high-strength steel with hardened and ground components to ensure minimal wear and extend service life
- Superior stability throughout the entire flow range

SPECIFICATIONS
Operating pressure: max. 350 bar at port 1 (pump)
max. 210 bar at port 2 (consumer)
max. 15 l/min
0.25 up to 1.00 l/min
1.00 up to 3.80 l/min
3.80 up to 15.0 l/min

Temperature range of operating fluid: Min. – 30°C up to max. +100°C
Ambient temperature range: Min. – 30°C up to max. +60°C

Fluid: Hydraulic fluid to DIN 51524 T1 + T2
Viscosity range: min. 7.4 mm²/s up to max. 420 mm²/s
Class 21 / 19 /16 according to ISO 4406 or cleaner

MTTFd: 150 years
Installation: no orientation restrictions

Materials:
Valve body: steel with hardened work surfaces
Piston: hardened and ground steel
Seals: NBR (Standard)
FKM (optional, temperature range -20°C up to +120°C)
Back-up rings: TPE-E

Cavity: FC06-2
Weight: 0.023 kg

FUNCTION
The SR06 is a 2 way directional flow control-valve, which keeps the nominal flow constant by means of a control function. The nominal flow is almost independent of the pressure and the viscosity. The valve is equipped with fixed orifice and integrated pressure compensator. The measuring orifice determines the nominal flow-adjustment range which is adjustable within a small range. If there is flow from port 1 to 2, a pressure differential is created at the measuring orifice. If the pressure compensator is in regulating position there is a balance of pressure differential at control piston surface on the one side and spring force on the other side. With rising flow (higher pressure differential) the cross-section of the regulating orifice will be controlled that there is a balance of forces. Hereby a constant outlet flow will be reached.
**MODEL CODE**

SR06 – 01 – C – N – 0.3 V 0.1

- **Basic model**
  - Flow control valve, direct acting

- **Type**
  - 01 = Standard

- **Body & ports**
  - C = cartridge only
  - *Versions in line bodies on request*

- **Seals**
  - N = NBR (Standard)
  - V = FKM (optional)

- **Nominal flow range**
  - 0.3 = 0.25 up to 1.00 l/min (0.3 gpm)
  - 1.0 = 1.00 up to 3.80 l/min (1.0 gpm)
  - 4.0 = 3.80 up to 15.0 l/min (4.0 gpm)

- **Adjustment option**
  - V = adjustable by tool

- **Setting**
  - none = 50% of maximal Nominal flow
  - 0.1 = 0.23 l/min – optional pre-adjustment on request

- **Standard models**
  - **Name**
  - Part No.
  - SR06-01-C-N-0.3V 2610213
  - SR06-01-C-N-1.0V 2610194
  - SR06-01-C-N-4.0V 2610214

- **Other types on request**

- **Line bodies**
  - **Code**
  - **Part No.**
  - **Material**
  - **Ports**
  - **Pressure**
  - FH062-SB2 3740528 steel, zinc plated G1/4 420 bar
  - FH062-AB2 3741297 Alu, anodized G1/4 245 bar

- **Seal kits**
  - **Code**
  - **Part No.**
  - Seal kit-NBR 2610184
  - Seal kit-FKM 2610185

- **Performance**
  - Measured at 28 mm²/s and T oil = 38°C

- **Tools**
  - **Code**
  - **Part No.**
  - Twist drill 2582046
  - Countersink 2582047

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The technical information in this brochure are relating to the operating conditions and applications.

At deviant applications and/or operating conditions please contact the technical dept.

Technical information are subject to technical modifications.

HYDAC Fluidtechnik GmbH
Justus-von-Liebig-Str. 5
66280 Sulzbach / Saar
Tel.: 06897 / 509-0
Fax: 06897 / 509-598
Email: flutec@hydac.com
Check Valve
Ball type
Cartridge-Minivalve – 350 bar
RV06A-01

FUNCTION
The check valve RV06A is a direct acting, spring loaded ball valve. In the valve the spring holds the ball in closed position and blocks therefore from port 2 to 1. The valve opens, if the pressure at port 1 is higher than the pressure at port 2 including the spring force.

FEATURES
- All exposed surfaces corrosion-proof
- All valve parts made of high-strength steel with hardened and ground components to ensure minimal wear and extend service life
- Superior stability throughout the entire flow range

SPECIFICATIONS
- Operating pressure: max. 350 bar
- Nominal flow: max. 20 l/min
- Cracking pressures: 0,35 bar, 2,10 bar
- Leakage: leakage-free, < max. 0,35 cm³/min at nominal pressure
- Temperature range of operating fluid: Min. – 30°C up to max. +100°C
- Ambient temperature range: Min. – 30°C up to max. + 60°C
- Fluid: Hydraulic fluid to DIN 51524 T1 + T2
- Viscosity range: min. 7,4 mm²/s up to max. 420 mm²/s
- Filtration: Class 21 / 19 /16 according to ISO 4406 or cleaner
- Installation: no orientation restrictions
- Materials: Valve body: steel with hardened work surfaces
  Ball: hardened steel
  Seals: NBR (Standard) FKM (optional, temperature range -20°C up to +120°C)
  Back-up rings: TPE-E
- Cavity: FC06-2
- Weight: 0,045 kg
MODEL CODE

Basic model
Check valve

Type
01 = Standard

Body & ports
C = cartridge only
*versions in line bodies on request

Seals
N = NBR (Standard)
V = FKM (optional)

Setting
5  = 0.35 bar (5 PSI)
15 = 1.0 bar (15 PSI)
30 = 2.1 bar (30 PSI)
70 = 4.8 bar (70 PSI)

Standard models
Name                  Part No.
RV06A-01-C-N-05     2610212
RV06A-01-C-N-30     2610154
Other types on request

*Line bodies

<table>
<thead>
<tr>
<th>Code</th>
<th>Part No.</th>
<th>Material</th>
<th>Ports</th>
<th>Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>FH062-SB2</td>
<td>3740528</td>
<td>steel, zinc plated</td>
<td>G1/4</td>
<td>420 bar</td>
</tr>
<tr>
<td>FH062-AB2</td>
<td>3741297</td>
<td>Alu, anodized</td>
<td>G1/4</td>
<td>245 bar</td>
</tr>
</tbody>
</table>

other line bodies on request

Seal kits

<table>
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<tr>
<th>Code</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seal kit-NBR</td>
<td>2610184</td>
</tr>
<tr>
<td>Seal kit-FKM</td>
<td>2610185</td>
</tr>
</tbody>
</table>

PERFORMANCE

Measured at 28 mm²/s and T oil = 38°C

Flow (min⁻¹) vs. GPM

Annotation
The technical information in this brochure are relating to the operating conditions and applications.
At deviant applications and/or operating conditions please contact the technical dept.
Technical information are subject to technical modifications.
Check Valve
Ball type
with pressure relief function
Cartridge-Minivalve – 350 bar
RV06C-01

FEATURES
- All exposed surfaces corrosion-proof
- All valve parts made of high-strength steel with hardened and ground components to ensure minimal wear and extend service life
- Combination of two functions in one valve
- Pressure ranges up to 350 bar
- Adjustable under full pressure
- Fast closing
- Protecting the system and the pump before pressure peaks
- Pressure relief with damped piston making the valve less prone to vibrations

SPECIFICATIONS
Operating pressure: max. 350 bar
Nominal flow: max. 20 l/min
Pressure ranges (DB):
- 0 up to 125 bar
- 0 up to 210 bar
- 35 up to 350 bar
Cracking pressure (check function): 0,35 bar
Leakage: leakage-free, < max. 0,35 cm³/min at 75% nominal pressure
Temperature range of operating fluid: Min. – 30°C up to max. +100°C
Ambient temperature range: Min. – 30°C up to max. +60°C
Fluid: Hydraulic fluid to DIN 51524 T1 + T2
Viscosity range: min. 7,4 mm²/s up to max. 420 mm²/s
Filtration: Class 21 / 19 / 16 according to ISO 4406 or cleaner
MTTFd: 150 years
Installation: no orientation restrictions
Materials:
- Valve body: steel with hardened work surfaces
- Piston: hardened and ground steel
- Seals: NBR (Standard)
- FKM (optional, temperature range -20°C up to +120°C)
- Back-up rings: TPE-E
Cavity: FC06-3
Weight: 0,027 kg

FUNCTION
The check valve RV06C is a direct acting, spring loaded ball valve with integrated pressure relief valve. If there is no flow the spring holds the ball in closed position and blocks therefore flow from port 1 to 2. The check valve opens, if the pressure at port 2 is higher than the pressure at port 1 including the spring force. If the pressures rises in the inlet pipe over the pre-adjusted pressure the relief valve opens to tank. Any pressure at port 3 is additive to the relief pressure setting.
**MODEL CODE**

**RV06C 01 C N 180 V 100**

**Basic model**
Check valve, direct acting

**Type**
01 = Standard

**Body & ports**
C = cartridge only
*versions in line bodies on request

**Seals**
N = NBR (Standard)
V = FKM (optional)

**Pressure range**
180 = 0 up to 125 bar (1800 PSI)
300 = 0 up to 210 bar (3000 PSI)
500 = 35 up to 350 bar (5000 PSI)

**Adjustment option**
V = adjustable by tool

**Setting**
none = 50% of max. Pressure
100 = 69 bar (1000 PSI) – factory preset pressure

**Standard models**

<table>
<thead>
<tr>
<th>Name</th>
<th>Part No.</th>
<th>Material</th>
<th>Ports</th>
<th>Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>RV06C-01-C-N-180V</td>
<td>2610323</td>
<td>steel, zinc plated G1/4</td>
<td>420</td>
<td>bar</td>
</tr>
<tr>
<td>RV06C-01-C-N-300V</td>
<td>2610325</td>
<td>Alu, anodized G1/4</td>
<td>245</td>
<td>bar</td>
</tr>
<tr>
<td>RV06C-01-C-N-400V</td>
<td>2610343</td>
<td>other line bodies on request</td>
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**Line bodies**

<table>
<thead>
<tr>
<th>Code</th>
<th>Part No.</th>
<th>Material</th>
<th>Ports</th>
<th>Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>FH063-SB2</td>
<td>3740562</td>
<td>steel, zinc plated G1/4</td>
<td>420</td>
<td>bar</td>
</tr>
<tr>
<td>FH063-AB2</td>
<td>3741286</td>
<td>Alu, anodized G1/4</td>
<td>245</td>
<td>bar</td>
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<tr>
<td>other line bodies on request</td>
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<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Seal kits**

<table>
<thead>
<tr>
<th>Code</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seal kit-NBR</td>
<td>2610186</td>
</tr>
<tr>
<td>Seal kit-FKM</td>
<td>2610187</td>
</tr>
</tbody>
</table>

**PERFORMANCE**

Measured at 28 mm²/s and T oil = 38°C

**Pressure relief**

Δp of check function
2/2 Solenoid Directional Valve
Poppet type, pilot operated, normally closed
Cartridge-Minivalve – 350 bar
WS06Z-01

**FEATURES**
- All exposed surfaces corrosion-proof
- All valve parts made of high-strength steel with hardened and ground components to ensure minimal wear and extended service life
- Coil seals protect the solenoid system
- Coil easy to exchange and pivotable

**SPECIFICATIONS**
- Operating pressure: max. 350 bar
- Nominal flow: max. 20 l/min
- Leakage: leakage-free, < max. 0.35 cm³/min at nominal pressure
- Temperature range of operating fluid: Min. – 30°C up to max. +100°C
- Ambient temperature range: Min. – 30°C up to max. + 60°C
- Fluid: Hydraulic fluid to DIN 51524 T1 + T2
- Viscosity range: min. 7.4 mm²/s up to max. 420 mm²/s
- Filtration: Class 21 / 19 / 16 according to ISO 4406 or cleaner
- MTTFd: 150 years
- Installation: no orientation restrictions
- Materials:
  - Valve body: steel
  - Piston: hardened and ground steel
  - Seals: NBR (Standard) FKM (optional, temperature range -20°C up to +120°C)
  - Back-up rings: TPE-E
- Cavity: FC06-2
- Weight:
  - Complete valve: 0.165 kg
  - Coil only: 0.088 kg

**Electrical data**
- Type of voltage: DC coil, AC voltage is rectified by a rectifier built-in the plug
- Nominal current at 20°C:
  - 984 mA at 12 V DC
  - 492 mA at 24 V DC
- Voltage tolerance: +/- 15% of Coil voltage
- Coil duty rating:
  - 100% continuous up to max. 115% of Coil voltage at 60°C ambient temperature
- Switching time:
  - Energized: approx. 35 ms
  - De-energized: approx. 50 ms

**FUNCTION**
In de-energized mode the valve blocks flow from port 2 to 1.
In the opposite direction the valve piston opens at a pressure differential from approx. 1.8 bar (Check function).
If energized, there is flow from port 2 to 1. A backflow from port 1 to 2 is severely restricted.
**MODEL CODE**

WS06Z – 01M – C – N – 24 DN

**Basic model**
Directional poppet valve, pilot operated

**Type**
- 01 = Standard
- 01M = manual override
- 30 = with protection strainer around port 2

**Body & ports**
- C = cartridge only
  - *versions in line bodies on request

**Seals**
- N = NBR (Standard)
- V = FKM (optional)

**Coil voltage**
- 0 = without coil (with nut and Seals)
- DC: 12 = 12 Volt DC voltage
  - 24 = 24 Volt DC voltage
- AC: 230 = 205 Volt DC voltage (at AC voltage plug with suppressor diode necessary Mat. 2600582)

**Coil connector (Coil... 32-1329)**
- DC: DG = DIN Plug to EN175301-803 Form B
- DL = 2 leadwires, 450mm long
- DN = Deutsch Plug, axial (Type DT04-2P)

**Standard models**

<table>
<thead>
<tr>
<th>Code</th>
<th>Part No.</th>
<th>Material</th>
<th>Ports</th>
<th>Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>WS06Z-01-C-N-0 without coil</td>
<td>2610237</td>
<td>steel, zinc plated G1/4</td>
<td>420 bar</td>
<td></td>
</tr>
</tbody>
</table>

*Line bodies on request*

<table>
<thead>
<tr>
<th>Other types on request</th>
</tr>
</thead>
<tbody>
<tr>
<td>FH062-SB2 3740528 steel, zinc plated G1/4</td>
</tr>
<tr>
<td>FH062-AB2 3741297 Alu, anodized G1/4</td>
</tr>
<tr>
<td>other line bodies on request</td>
</tr>
</tbody>
</table>

**Seal kits**

<table>
<thead>
<tr>
<th>Code</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seal kit-NBR</td>
<td>2610184</td>
</tr>
<tr>
<td>Seal kit-FKM</td>
<td>2610185</td>
</tr>
</tbody>
</table>

**PERFORMANCE**

Measured at 28 mm²/s and T oil = 38°C

Annotation

The technical information in this brochure are relating to the operating conditions and applications.

At deviant applications and/or operating conditions please contact the technical dept.

Technical information are subject to technical modifications.
2/2 Solenoid Directional Valve
Poppet type, pilot operated, normally open
Cartridge-Minivalve – 350 bar
WS06Y-01

FEATURES
- All exposed surfaces corrosion-proof
- All valve parts made of high-strength steel with hardened and ground components to ensure minimal wear and extended service life
- Coil seals protect the solenoid system
- Coil easy to exchange and pivotable

SPECIFICATIONS
Operating pressure: max. 350 bar
Nominal flow: max. 20 l/min
Leakage: leakage-free, < max. 0.35 cm³/min at nominal pressure
Temperature range of operating fluid: Min. – 30°C up to max. +100° C
Ambient temperature range: Min. – 30°C up to max. + 60° C
Fluid: Hydraulic fluid to DIN 51524 T1 + T2
Viscosity range: min. 7.4 mm²/s up to max. 420 mm²/s
Filtration: Class 21 / 19 /16 according to ISO 4406 or cleaner
MTTF<sub>d</sub>: 150 years
Installation: no orientation restrictions
Materials: Valve body: steel
Piston: hardened and ground steel
Seals: NBR (Standard) FKM (optional, temperature range -20°C up to +120°C)
Back-up rings: TPE-E
Cavity: FC06-2
Weight: Complete valve: 0.165 kg
Coil only: 0.088 kg
Electrical data
Type of voltage: DC coil, AC voltage is rectified by a rectifier built-in the plug
Nominal current at 20°C: 984 mA at 12 V DC
492 mA at 24 V DC
Voltage tolerance: +/- 15% of Coil voltage
Coil duty rating: 100% continuous up to max. 115% of Coil voltage at 60°C ambient temperature
Switching time: Energized: approx. 50 ms
De-energized: approx. 35 ms

FUNCTION
In de-energized mode there is flow from port 2 to 1.
If energized, the valve blocks flow from port 2 to 1.
In the opposite direction it opens if the pressure force on den piston is higher than the magnet force (approx. 9 up to 20 bar).
**MODEL CODE**

WS06Y – 01M – C – N – 24 DN

**Basic model**
directional poppet valve, pilot operated

**Type**
- 01 = Standard
- 01M = manual override
- 30 = with protection strainer around port 2

**Body & ports**
- C = cartridge only
  - versions in line bodies on request

**Seals**
- N = NBR (Standard)
- V = FKM (optional)

**Coil voltage**
- 0 = without coil (with nut and Seals)
- DC: 12 = 12 Volt DC voltage
  - 24 = 24 Volt DC voltage
- AC: 115 = 105 Volt DC voltage
  - 230 = 205 Volt DC voltage (at AC voltage plug with suppressor diode necessary Mat. 2600582)

**Coil connector (Coil... 32-1329)**
- DC: DG = DIN Plug to EN175301-803 Form B
  - DL = 2 leadwires, 450mm long
  - DN = Deutsch Plug, axial (Type DT04-2P)

**Standard models**

<table>
<thead>
<tr>
<th>Code</th>
<th>Part No.</th>
<th>Material</th>
<th>Ports</th>
<th>Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>WS06Y-01-C-N-0 without coil</td>
<td>2610209</td>
<td>steel, zinc plated G1/4</td>
<td>420 bar</td>
<td></td>
</tr>
<tr>
<td>(coils please choose from brochure D 5.155.0 )</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Other types on request**

**Line bodies**

<table>
<thead>
<tr>
<th>Code</th>
<th>Part No.</th>
<th>Material</th>
<th>Ports</th>
<th>Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>FH062-SB2</td>
<td>3740528</td>
<td>steel, zinc plated G1/4</td>
<td>420 bar</td>
<td></td>
</tr>
<tr>
<td>FH062-AB2</td>
<td>3741297</td>
<td>Alu, anodized G1/4</td>
<td>245 bar</td>
<td></td>
</tr>
</tbody>
</table>

**Other line bodies on request**

**Seal kits**

<table>
<thead>
<tr>
<th>Code</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seal kit-NBR</td>
<td>2610184</td>
</tr>
<tr>
<td>Seal kit-FKM</td>
<td>2610185</td>
</tr>
</tbody>
</table>

**PERFORMANCE**

Measured at 28 mm²/s and T oil = 38°C

An annotation

The technical information in this brochure are relating to the operating conditions and applications.

At deviant applications and/or operating conditions please contact the technical dept.

Technical information are subject to technical modifications.

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Fax: 06897 / 590-598
Email: flotec@hydac.com
**2/2 Solenoid Directional Valve**

Spool type, direct acting, Cartridge-Minivalve – 350 bar

**WK06W-01**

**FEATURES**
- All exposed surfaces corrosion-proof
- All valve parts made of high-strength steel with hardened and ground components to ensure minimal wear and extended service life
- Coil seals protect the solenoid system
- Coil easy to exchange and pivotable

**SPECIFICATIONS**
- Operating pressure: max. 350 bar
- Nominal flow: max. 10 l/min
- Leakage: < max. 90 cm³/min at 207 bar and 28 mm²/s
- Temperature range of operating fluid: Min. – 30°C up to max. +100°C
- Ambient temperature range: Min. – 30°C up to max. +60°C
- Fluid: Hydraulic fluid to DIN 51524 T1 + T2
- Viscosity range: min. 7.4 mm²/s up to max. 420 mm²/s
- Filtration: Class 21 / 19 / 16 according to ISO 4406 or cleaner
- MTTFd: 150 years
- Installation: no orientation restrictions
- Materials: Valve body: steel with hardened work surfaces
  Piston: hardened and ground steel
  Seals: NBR (Standard) FKM (optional, temperature range -20°C up to +120°C)
  Back-up rings: TPE-E
- Cavity: FC06-2
- Weight: Complete valve: 0.165 kg
  Coil only: 0.088 kg

**Electrical data**
- Type of voltage: DC coil, AC voltage is rectified by a rectifier built-in the plug
- Nominal current at 20°C: 984 mA at 12 V DC
  492 mA at 24 V DC
- Voltage tolerance: +/- 15% of Coil voltage
- Coil duty rating: 100% continuous up to max.
  115% of Coil voltage at 60°C ambient temperature

**FUNCTION**
In de-energized mode the valve is blocked in both directions.
If energized, the valve opens and allows the flow in both directions.
**MODEL CODE**

**WK06W – 01M – C – N – 24 DN**

- **Basic model**: Directional Spool type, direct acting
- **Type**: 01 = Standard  
  01M = manual override
- **Body & ports**: C = cartridge only  
  *versions in line bodies on request*
- **Seals**: N = NBR (Standard)  
  V = FKM (optional)
- **Coil voltage**:  
  0 = without coil (with nut and Seals)  
  DC: 12 = 12 Volt DC voltage  
  24 = 24 Volt DC voltage  
  AC: 115 = 105 Volt DC voltage  
  230 = 205 Volt DC voltage (at AC voltage plug with suppressor diode necessary Mat. 2600582)
- **Coil connector (Coil... 32-1329)**:  
  DC: DG = DIN Plug to EN175301-803 Form B  
  DL = 2 leadwires, 450mm long  
  DN = Deutsch Plug, axial (Type DT04-2P)

**Standard models**

<table>
<thead>
<tr>
<th>Code</th>
<th>Part No.</th>
<th>Material</th>
<th>Ports</th>
<th>Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>WK06W-01-C-N-0 without coil</td>
<td>2610182</td>
<td>steel, zinc plated</td>
<td>G1/4</td>
<td>420 bar</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Alu, anodized</td>
<td>G1/4</td>
<td>245 bar</td>
</tr>
<tr>
<td>other line bodies on request</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Seal kits**

<table>
<thead>
<tr>
<th>Code</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seal kit-NBR</td>
<td>2610184</td>
</tr>
<tr>
<td>Seal kit-FKM</td>
<td>2610185</td>
</tr>
</tbody>
</table>

**PERFORMANCE**

Measured at 28 mm²/s and T oil = 38°C
2/2 Solenoid Directional valve
Spool type, direct acting,
Cartridge-Minivalve – 350 bar
WK06V-01

FEATURES
- All exposed surfaces corrosion-proof
- All valve parts made of high-strength steel with hardened and ground components to ensure minimal wear and extended service life
- Coil seals protect the solenoid system
- Coil easy to exchange and pivotable

SPECIFICATIONS
Operating pressure: max. 350 bar
Nominal flow: max. 15 l/min
Leakage: < max. 90 cm³/min at 207 bar and 28 mm²/s
Temperature range of operating fluid: Min. – 30°C up to max. +100°C
Ambient temperature range: Min. – 30°C up to max. +60°C
Fluid: Hydraulic fluid to DIN 51524 T1 + T2
Viscosity range: min. 7.4 mm²/s up to max. 420 mm²/s
Filtration: Class 21/19/16 according to ISO 4406 or cleaner
MTTFd: 150 years
Installation: no orientation restrictions
Materials: Valve body: steel with hardened work surfaces
Piston: hardened and ground steel
Seals: NBR (Standard) FKM (optional, temperature range -20°C up to +120°C)
Back-up rings: TPE-E
Cavity: FC06-2
Weight:
Complete valve: 0.170 kg
Coil only: 0.088 kg

Electrical data
Type of voltage: DC coil, AC voltage is rectified by a rectifier built-in the plug
Nominal current at 20°C:
984 mA at 12 V DC
492 mA at 24 V DC
Voltage tolerance: +/- 15% of Coil voltage
Coil duty rating:
100% continuous up to max. 115% of Coil voltage at 60°C ambient temperature
Switching time:
Energized: approx. 50 ms
De-energized: approx. 35 ms

FUNCTION
In de-energized mode the valve is open in both directions.
If energized, the valve closes and blocks the flow in both directions.
MODEL CODE

WK06V – 01M – C – N – 24 DN

Basic model
Directional Spool type, direct acting

Type
01 = Standard
01M = manual override

Body & ports
C = cartridge only
*versions in line bodies on request

Seals
N = NBR (Standard)
V = FKM (optional)

Coil voltage
0 = without coil (with nut and Seals)
DC: 12 = 12 Volt DC voltage
24 = 24 Volt DC voltage
AC: 115 = 105 Volt DC voltage
230 = 205 Volt DC voltage (at AC voltage plug with suppressor diode necessary Mat. 2600582)

Coil connector (Coil... 32-1329)
DC: DG = DIN Plug to EN175301-803 Form B
DL = 2 leadwires, 450mm long
DN = Deutsch Plug, axial (Type DT04-2P)

Standard models
Code Part No.
WK06V-01-C-N-0 without coil 2610222
(coil please choose from brochure D 5.155.0 )
Other types on request

*Line bodies

<table>
<thead>
<tr>
<th>Code</th>
<th>Part No.</th>
<th>Material</th>
<th>Ports</th>
<th>Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>FH062-SB2</td>
<td>3740528</td>
<td>steel, zinc plated</td>
<td>G1/4</td>
<td>420 bar</td>
</tr>
<tr>
<td>FH062-AB2</td>
<td>3741297</td>
<td>Alu, anodized</td>
<td>G1/4</td>
<td>245 bar</td>
</tr>
</tbody>
</table>
other line bodies on request

Seal kits
Code Part No.
Seal kit-NBR 2610184
Seal kit-FKM 2610185

PERFORMANCE

Measured at 28 mm²/s and T oil = 38°C

DIMENSIONS

Cavity
FC06-2

Coil Nut
Torque: 3.5 ± 0.5Nm
(Torque: 4 ± 0.7 Nm)

All dimensions in mm (Inch)
Subject to technical modification

Tools

<table>
<thead>
<tr>
<th>Code</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Twist drill</td>
<td>2582046</td>
</tr>
<tr>
<td>Countersink</td>
<td>2582047</td>
</tr>
</tbody>
</table>

HYDAC Fluidtechnik GmbH
Justus-von-Liebig-Str. 5
66280 Sulzbach / Saar
Tel.: 06897 / 509 -0
Fax: 06897 / 509 -598
Email: flutec@hydac.com

All dimensions in inch (mm)
Subject to technical modification
3/2 Solenoid Directional Valve
Spool type, direct acting
Cartridge-Minivalve – 350 bar
WK06C-01

**FEATURES**
- All exposed surfaces corrosion-proof
- All valve parts made of high-strength steel with hardened and ground components to ensure minimal wear and extended service life
- Coil seals protect the solenoid system
- Coil easy to exchange and pivotable

**SPECIFICATIONS**
- Operating pressure: max. 350 bar
- Nominal flow: max. 10 l/min
- Leakage: < max. 90 cm³/min at 207 bar and 28 mm²/s
- Temperature range of operating fluid: Min. – 30°C up to max. +100°C
- Ambient temperature range: Min. – 30°C up to max. + 60°C
- Fluid: Hydraulic fluid to DIN 51524 T1 + T2
- Viscosity range: min. 7,4 mm²/s up to max. 420 mm²/s
- Filtration: Class 21 / 19 /16 according to ISO 4406 or cleaner
- MTTFd: 150 years
- Installation: no orientation restrictions
- Materials:
  - Valve body: steel with hardened work surfaces
  - Piston: hardened and ground steel
  - Seals: NBR (Standard) FKM (optional, temperature range -20°C up to +120°C)
- Back-up rings: TPE-E
- Electrical data
  - Type of voltage: DC coil, AC voltage is rectified by a rectifier built-in the plug
  - Nominal current at 20°C: 984 mA at 12 V DC, 492 mA at 24 V DC
  - Voltage tolerance: +/- 15% of Coil voltage
  - Coil duty rating: 100% continuous up to max. 115% of Coil voltage at 60°C ambient temperature
  - Switching time: Energized: approx. 30 - 60 ms, De-energized: approx. 20 - 40 ms

**FUNCTION**
- In de-energized mode there is free flow from port 1 to 2 and in the opposite direction. Port 3 is closed.
- If energized, the valve allows flow from port 2 to 3 and in the opposite direction. Port 1 is closed.

---

**SYMBOL**

```
\[\begin{array}{c}
1 \\
T \\
T \\
2 \\
3
\end{array}\]
```

up to 10 l/min
up to 350 bar

---

**FUNCTION**

**SPECIFICATIONS**

**FEATURES**

**Electrical data**
**MODEL CODE**

**WK06C – 01M – C – N – 24 DN**

**Basic model**
Directional Spool type, direct acting

**Type**
01 = Standard
01M = manual override

**Body & ports**
C = cartridge only
*versions in line bodies on request

**Seals**
N = NBR (Standard)
V = FKM (optional)

**Coil voltage**
0 = without coil (with nut and Seals)
DC: 12 = 12 Volt DC voltage
24 = 24 Volt DC voltage
AC: 115 = 105 Volt DC voltage
230 = 205 Volt DC voltage (at AC voltage plug with suppressor diode necessary Mat. 2600582)

**Coil connector (Coil... 32-1329)**
DC: DG = DIN Plug to EN175301-803 Form B
DL = 2 leadwires, 450mm long
DN = Deutsch Plug, axial (Type DT04-2P)

**Standard models**

<table>
<thead>
<tr>
<th>Code</th>
<th>Part No.</th>
<th>Material</th>
<th>Ports</th>
<th>Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>WK06C-01-C-N-0 without coil</td>
<td>2610183</td>
<td>steel, zinc plated</td>
<td>G1/4</td>
<td>420 bar</td>
</tr>
<tr>
<td>(coil please choose from brochure D 5.155.0 )</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Other types on request

**Line bodies**

<table>
<thead>
<tr>
<th>Code</th>
<th>Part No.</th>
<th>Material</th>
<th>Ports</th>
<th>Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>FH063-SB2</td>
<td>3740562</td>
<td>steel, zinc plated</td>
<td>G1/4</td>
<td>420 bar</td>
</tr>
<tr>
<td>FH063-AB2</td>
<td>3741286</td>
<td>Alu, anodized</td>
<td>G1/4</td>
<td>245 bar</td>
</tr>
</tbody>
</table>

Other line bodies on request

**Seal kits**

<table>
<thead>
<tr>
<th>Code</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seal kit-NBR</td>
<td>2610186</td>
</tr>
<tr>
<td>Seal kit-FKM</td>
<td>2610187</td>
</tr>
</tbody>
</table>

**PERFORMANCE**

Measured at 28 mm²/s and T oil = 38°C
**FUNCTION**

In de-energized mode, the valve allows flow from port 1 to 2 and from 3 to 4 and also in the opposite direction. If energized, the valve allows flow from port 1 to 4 and from 3 to 2 and also in the opposite direction.

**FEATURES**

- All exposed surfaces corrosion-proof
- All valve parts made of high-strength steel with hardened and ground components to ensure minimal wear and extended service life
- Coil seals protect the solenoid system
- Coil easy to exchange and pivotable

**SPECIFICATIONS**

- Operating pressure: max. 350 bar
- Nominal flow: max. 10 l/min
- Leakage: < max. 100 cm³/min at 207 bar and 28 mm²/s
- Temperature range of operating fluid: Min. – 30°C up to max. +100° C
- Ambient temperature range: Min. – 30°C up to max. + 60° C
- Fluid: Hydraulic fluid to DIN 51524 T1 + T2
- Viscosity range: min. 7.4 mm²/s up to max. 420 mm²/s
- Filtration: Class 21 / 19 /16 according to ISO 4406 or cleaner
- MTTFd: 150 years
- Installation: no orientation restrictions
- Materials: Valve body: steel with hardened work surfaces
- Piston: hardened and ground steel
- Seals: NBR (Standard) FKM (optional, temperature range -20°C up to +120°C)
- Back-up rings: TPE-E
- Cavity: FC06-4
- Weight: Complete valve: 0,190 kg
  - Coil only: 0,088 kg

**Electrical data**

- Type of voltage: DC coil, AC voltage is rectified by a rectifier built-in the plug
- Nominal current at 20°C: 984 mA at 12 V DC
  - 492 mA at 24 V DC
- Voltage tolerance: +/- 15% of Coil voltage
- Coil duty rating: 100% continuous up to max.
  - 115% of Coil voltage at 60°C ambient temperature
- Switching time:
  - Energized: approx. 30 - 60 ms
  - De-energized: approx. 20 - 40 ms

**SYMBOL**

```
\[ \begin{array}{ccc}
2 & & 4 \\
/ & \wedge & \wedge \\
3 & & 1 \\
\end{array} \]
```

**FUNCTION**

In de-energized mode, the valve allows flow from port 1 to 2 and from 3 to 4 and also in the opposite direction. If energized, the valve allows flow from port 1 to 4 and from 3 to 2 and also in the opposite direction.
**MODEL CODE**

**WK06Y – 01M – C – N – 24 DN**

**Basic model**
Directional Spool type, direct acting

**Type**
01 = Standard
01M = manual override

**Body & ports**
C = cartridge only
*versions in line bodies on request

**Seals**
N = NBR (Standard)
V = FKM (optional)

**Coil voltage**
0 = without coil (with nut and Seals)
DC: 12 = 12 Volt DC voltage
24 = 24 Volt DC voltage
AC: 115 = 105 Volt DC voltage
230 = 205 Volt DC voltage (at AC voltage plug with suppressor diode necessary Mat. 2600592)

**Coil connector (Coil... 32-1329)**
DC: DG = DIN Plug to EN175301-803 Form B
DL = 2 leadwires, 450mm long
DN = Deutsch Plug, axial (Type DT04-2P)

**Standard models**

<table>
<thead>
<tr>
<th>Code</th>
<th>Part No.</th>
<th>Material</th>
<th>Ports</th>
<th>Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>WK06Y-01-C-N-0 without coil</td>
<td>2610203</td>
<td>steel, zinc plated G1/4</td>
<td>420 bar</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Alu, anodized G1/4</td>
<td>245 bar</td>
<td></td>
</tr>
</tbody>
</table>

*Line bodies*

<table>
<thead>
<tr>
<th>Code</th>
<th>Part No.</th>
<th>Material</th>
<th>Ports</th>
<th>Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>FH064-SB2</td>
<td>3740589</td>
<td>steel, zinc plated G1/4</td>
<td>420 bar</td>
<td></td>
</tr>
<tr>
<td>FH064-AB2</td>
<td>3741315</td>
<td>Alu, anodized G1/4</td>
<td>245 bar</td>
<td></td>
</tr>
</tbody>
</table>

Other line bodies on request

**Seal kits**

<table>
<thead>
<tr>
<th>Code</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seal kit-NBR</td>
<td>2610188</td>
</tr>
<tr>
<td>Seal kit-FKM</td>
<td>2610189</td>
</tr>
</tbody>
</table>

**PERFORMANCE**

Measured at 28 mm²/s and T oil = 38°C
4/3 Solenoid Directional Valve
Spool type, direct acting
Cartridge-Minivalve – 350 bar
WK06E-01

FEATURES
- All exposed surfaces corrosion-proof
- All valve parts made of high-strength steel with hardened and ground components to ensure minimal wear and extended service life
- Coil seals protect the solenoid system
- Coils easy to exchange and pivotable

SPECIFICATIONS
Operating pressure: max. 350 bar
Nominal flow: max. 210 bar at Tank (port 1)
Leakage: max. 11 l/min
< max. 100 cm³/min at 207 bar and 28 mm²/s
Temperature range of operating fluid: Min. – 30°C up to max. +100°C
Ambient temperature range: Min. – 30°C up to max. +60°C
Fluid: Hydraulic fluid to DIN 51524 T1 + T2
Viscosity range: min. 7.4 mm²/s up to max. 420 mm²/s
Filtration: Class 21 / 19 /16 according to ISO 4406 or cleaner
MTTFd: 150 years
Installation: no orientation restrictions
Materials: Valve body: steel with hardened work surfaces
Piston: hardened and ground steel
Seals: NBR (Standard)
FKM (optional, temperature range -20°C up to +120°C)
Back-up rings: TPE-E
Cavity: FC06-4
Weight: Complete valve: 0.374 kg
Coil only: 0.088 kg (2x)

Electrical data
Type of voltage: DC coil, AC voltage is rectified by a rectifier built-in the plug
Nominal current at 20°C: 984 mA at 12 V DC
492 mA at 24 V DC
Voltage tolerance: +/- 15% of Coil voltage
Coil duty rating: 100% continuous up to max. 115% of Coil voltage at 60°C ambient temperature
Switching time:
Energized: approx. 30 - 60 ms
De-energized: approx. 20 - 40 ms
DIMENSIONS

Cavity
FC06-4

MODEL CODE

WK06E – 01M – C – N – 24 DN

Basic model
Directional Spool type, direct acting

Type
01 = Standard
01M = manual override
01A = lockable manual override

Body & ports
C = cartridge only
*versions in line bodies on request

Seals
N = NBR (Standard)
V = FKM (optional)

Coil voltage
0 = without coil (with nut and Seals)
DC: 12 = 12 Volt DC voltage
24 = 24 Volt DC voltage
AC: 115 = 115 Volt AC voltage
230 = 230 Volt DC voltage (at AC voltage plug with suppressor diode necessary Mat. 2600582)

Coil connector (Coil... 32-1329)
DC: DG = DIN Plug to EN175301-803 Form B
DL = 2 leadwires, 450mm long
DN = Deutsch Plug, axial (Type DT04-2P)

Standard models
Code          Part No.
WK06E-01-C-N-0 without coil 2610190
(coils please choose from brochure D 5.155.0)

Other types on request

*Line bodies
Code          Part No. Material Ports Pressure
FH064-SB2 3740589 steel, zinc plated G1/4 420 bar
FH064-AB2 3741315 Alu, anodized G1/4 245 bar
other line bodies on request

Seal kits
Code          Part No.
Seal kit-NBR 2610188
Seal kit-FKM 2610189

PERFORMANCE

Measured at 28 mm²/s and T oil = 38°C

Tools
Code          Part No.
Twist drill   2582057
Countersink   2582058

All dimensions in inch (mm)
Subject to technical modification

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66280 Sulzbach / Saar
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4/3 Solenoid Directional Valve
Spool type, direct acting
Cartridge-Minivalve – 350 bar
WK06G-01

FEATURES
- All exposed surfaces corrosion-proof
- All valve parts made of high-strength steel with hardened and ground components to ensure minimal wear and extended service life
- Coil seals protect the solenoid system
- Coils easy to exchange and pivotable

SPECIFICATIONS
Operating pressure: max. 350 bar
Nominal flow: max. 7 l/min
Leakage: < max. 100 cm³/min at 207 bar and 28 mm²/s
Temperature range of operating fluid: Min. – 30°C up to max. +100°C
Ambient temperature range: Min. – 30°C up to max. +60°C
Fluid: Hydraulic fluid to DIN 51524 T1 + T2
Viscosity range: min. 7.4 mm²/s up to max. 420 mm²/s
Filtration: Class 21 / 19 / 16 according to ISO 4406 or cleaner
MTTFₘ: 150 years
Installation: no orientation restrictions
Materials: Valve body: steel with hardened work surfaces
Piston: hardened and ground steel
Seals: NBR (Standard)
FKM (optional, temperature range -20°C up to +120°C)
Back-up rings: TPE-E
FC06-4
Complete valve: 0.374 kg
Coil only: 0.088 kg (2x)

Electrical data
Type of voltage: DC coil, AC voltage is rectified by a rectifier built-in the plug
Nominal current at 20°C: 984 mA at 12 V DC
Voltage tolerance: +/- 15% of Coil voltage
Coil duty rating: 100% continuous up to max. 115% of Coil voltage at 60°C
ambient temperature

FUNCTION
In de-energized mode the ports 2 and 4 are blocked – whereas there is flow from port 3 to 1 and in opposite direction.
If the coil S1 is energized, there is flow from port 3 to 2 and from 4 to 1.
If the coil S2 is energized, there is flow from port 3 to 4 and from 2 to 1.

SYMBOL

E 5.152.1/06.17
DIMENSIONS

MODEL CODE

Basic model
Directional Spool type, direct acting

Type
01 = Standard
01M = manual override
01A = lockable manual override

Body & ports
C = cartridge only
*versions in line bodies on request

Seals
N = NBR (Standard)
V = FKM (optional)

Coil voltage
0 = without coil (with nut and Seals)
DC: 12 = 12 Volt DC voltage
24 = 24 Volt DC voltage
AC: 115 = 105 Volt DC voltage
230 = 205 Volt DC voltage (at AC voltage plug with suppressor diode necessary Mat. 2600582)

Coil connector (Coil... 32-1329)
DC: DG = DIN Plug to EN175301-803 Form B
DL = 2 leadwires, 450mm long
DN = Deutsch Plug, axial (Type DT04-2P)

Standard models
Code Part No.
WK06G-01-C-N-0 without coil 2610192
(coils please choose from brochure D 5.155.0 )

Other types on request

*Line bodies
Code Part No. Material Ports Pressure
FH064-SB2 3740589 steel, zinc plated G1/4 420 bar
FH064-AB2 3741315 Alu, anodized G1/4 245 bar
other line bodies on request

Seal kits
Code Part No.
Seal kit-NBR 2610188
Seal kit-FKM 2610189

PERFORMANCE

Measured at 28 mm²/s and T oil = 38°C

_tools

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66280 Sulzbach / Saar
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Email: flutec@hydac.com
**4/3 Solenoid Directional Valve**

**Spool type, direct acting**

**Cartridge-Minivalve – 350 bar**

**WK06H-01**

---

**FEATURES**
- All exposed surfaces corrosion-proof
- All valve parts made of high-strength steel with hardened and ground components to ensure minimal wear and extended service life
- Coil seals protect the solenoid system
- Coils easy to exchange and pivotable

---

**SPECIFICATIONS**

**Operating pressure:**
- max. 350 bar
- max. 210 bar at Tank (port 1)
- max. 9 l/min
- < max. 100 cm³/min at 207 bar and 28 mm²/s

**Temperature range of operating fluid:**
- Min. – 30°C up to max. +100°C
- Min. – 30°C up to max. + 60°C

**Ambient temperature range:**
- Hydraulic fluid to DIN 51524 T1 + T2
- min. 7.4 mm²/s up to max. 420 mm²/s
- Class 21 / 19 /16 according to ISO 4406 or cleaner
- 150 years
- no orientation restrictions

**Fluid:**
- Valve body: steel with hardened work surfaces
- Piston: hardened and ground steel
- Seals: NBR (Standard)
  - FKM (optional, temperature range -20°C up to +120°C)

**MTTFd:**
- 150 years
- no orientation restrictions

**Installation:**
- Valve: cartridge
- Seal: TPE-E
- Cavity: FC06-4

**Weight:**
- Complete valve: 0,374 kg
- Coil only: 0,088 kg (2x)

---

**FUNCTION**

In de-energized mode all ports are connected.

If the coil S1 is energized, there is flow from port 3 to 4 and from 2 to 1 .
If the coil S2 is energized, there is flow from port 3 to 2 and from 4 to 1 .

---

**Electrical data**

**Type of voltage:**
- DC coil, AC voltage is rectified by a rectifier built-in the plug

**Nominal current at 20°C:**
- 984 mA at 12 V DC
- 492 mA at 24 V DC

**Voltage tolerance:**
- +/- 15% of Coil voltage
- 100% continuous up to max.
- 115% of Coil voltage at 60°C

**Ambient temperature**
DIMENSIONS

Cavity
FC06-4

MODEL CODE

WK06H – 01M – C – N – 24 DN

Basic model
Directional Spool type, direct acting

Type
01 = Standard
01M = manual override
01A = lockable manual override

Body & ports
C = cartridge only
*versions in line bodies on request

Seals
N = NBR (Standard)
V = FKM (optional)

Coil voltage
0 = without coil (with nut and Seals)
DC: 12 = 12 Volt DC voltage
24 = 24 Volt DC voltage
AC: 115 = 115 Volt DC voltage
230 = 230 Volt DC voltage (at AC voltage plug with suppressor diode necessary Mat. 2600592)

Coil connector (Coil... 32-1329)
DC: DG = DIN Plug to EN175301-803 Form B
DL = 2 leadwires, 450mm long
DN = Deutsch Plug, axial (Type DT04-2P)

Standard models
Code Part No.
WK06H-01-C-N-0 without coil 2610193
(coils please choose from brochure D 5.155.0)
Other types on request

*Line bodies
Code Part No. Material Ports Pressure
FH064-SB2 3740589 steel, zinc plated G1/4 420 bar
FH064-AB2 3741315 Alu, anodized G1/4 245 bar
other line bodies on request

Seal kits
Code Part No.
Seal kit-NBR 2610188
Seal kit-FKM 2610189

PERFORMANCE

Measured at 28 mm²/s and T oil = 38°C
4/3 Solenoid Directional Valve
Spool type, direct acting
Cartridge-Minivalve – 350 bar
WK06J-01

**FEATURES**
- All exposed surfaces corrosion-proof
- All valve parts made of high-strength steel with hardened and ground components to ensure minimal wear and extended service life
- Coil seals protect the solenoid system
- Coils easy to exchange and pivotable

**SPECIFICATIONS**

**Operating pressure:**
- max. 350 bar
- max. 210 bar at Tank (port 1)
- max. 11 l/min
- < max. 100 cm³/min at 250 bar and 34 mm²/s

**Temperature range of operating fluid:**
- Min. –30°C up to max. +100°C
- Min. –30°C up to max. +60°C

**Ambient temperature range:**
- Hydraulic fluid to DIN 51524 T1 + T2
- min. 7.4 mm²/s up to max. 420 mm²/s
- Class 21 / 19 / 16 according to ISO 4406 or cleaner
- 150 years
- no orientation restrictions

**Fluid:**
- Valve body: steel with hardened work surfaces
- Piston: hardened and ground steel
- Seals: NBR (Standard)
- FKM (optional, temperature range -20°C up to +120°C)

**MTTF:**
- 150 years
- no orientation restrictions

**Filtration:**
- Oil: Class 21 / 19 / 16 according to ISO 4406 or cleaner
- Fluid: min. 7.4 mm²/s up to max. 420 mm²/s

**Installation:**
- Valve body: steel with hardened work surfaces
- Piston: hardened and ground steel
- Seals: NBR (Standard)
- FKM (optional, temperature range -20°C up to +120°C)

**Weight:**
- Complete valve: 0.374 kg
- Coil only: 0.088 kg (2x)

**Electrical data**
- Type of voltage:
- DC coil, AC voltage is rectified by a rectifier built-in the plug
- Nominal current at 20°C:
- 984 mA at 12 V DC
- 492 mA at 24 V DC
- Voltage tolerance:
- +/- 15% of Coil voltage
- 100% continuous up to max.
- 115% of Coil voltage at 60°C ambient temperature

---

In de-energized mode the ports 2, 4 and 1 are connected, while port 3 is blocked.

If the coil S1 is energized, there is flow through the valve from port 3 to 4 and from 2 to 1.

If the coil S2 is energized, there is flow from port 3 to 2 and from 4 to 1.
**DIMENSIONS**

Cavity

**FC06-4**

**HYDAC Fluidtechnik GmbH**

Justus-von-Liebig-Str. 5

66280 Sulzbach / Saar

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Fax: 06897 / 509 -598

Email: flutec@hydac.com

**MODEL CODE**

**WK06J – 01M – C – N – 24 DN**

**Basic model**

Directional Spool type, direct acting

**Type**

01 = Standard
01M = manual override
01A = lockable manual override

**Body & ports**

C = cartridge only

versions in line bodies on request

**Seals**

N = NBR (Standard)
V = FKM (optional)

**Coil voltage**

0 = without coil (with nut and Seals)
DC: 12 = 12 Volt DC voltage
24 = 24 Volt DC voltage
AC: 115 = 105 Volt DC voltage
230 = 205 Volt DC voltage (at AC voltage plug with suppressor diode necessary Mat. 2600582)

**Coil connector (Coil... 32-1329)**

DC: DG = DIN Plug to EN175301-803 Form B
DL = 2 leadwires, 450mm long
DN = Deutsch Plug, axial (Type DT04-2P)

**Standard models**

<table>
<thead>
<tr>
<th>Code</th>
<th>Part No.</th>
<th>Material</th>
<th>Ports</th>
<th>Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>WK06J-01-C-N-0</td>
<td>2610191</td>
<td>steel, zinc plated G1/4</td>
<td>420 bar</td>
<td></td>
</tr>
<tr>
<td>(coils please choose from brochure D 5.155.0)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other types on request</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Line bodies**

<table>
<thead>
<tr>
<th>Code</th>
<th>Part No.</th>
<th>Material</th>
<th>Ports</th>
<th>Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>FH064-SB2</td>
<td>3740589</td>
<td>steel, zinc plated G1/4</td>
<td>420 bar</td>
<td></td>
</tr>
<tr>
<td>FH064-AB2</td>
<td>3741315</td>
<td>Alu, anodized G1/4</td>
<td>245 bar</td>
<td></td>
</tr>
<tr>
<td>other line bodies on request</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Seal kits**

<table>
<thead>
<tr>
<th>Code</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seal kit-NBR</td>
<td>2610188</td>
</tr>
<tr>
<td>Seal kit-FKM</td>
<td>2610189</td>
</tr>
</tbody>
</table>

**PERFORMANCE**

Measured at 28 mm²/s and T oil = 38°C
Coils for Minivalves  
(for solenoid operated directional valves)  
Type 32-1329

for following valves:  
WS06Z  WS06Y  
WK06W  WK06C  
WK06Y  WK06E  
WK06G  WK06H

FEATURES-
- Maximal force at minimal space requirement,  
  by perfect wound coil - maximal copper : avoids damages of the insulation of the  
  wires (breakdown by short-circuits)
- Fully closed coil  
  internal coil sealing avoids humidity and short-circuits in the winding
- Designed for 100% coil duty rating  
  at Imax and ambient temperatures from –20° up to +60°C
- Small energy consumption  
  by optimal design of force – energy ratio
- High mechanical resistance,  
  by zinc plated steel cover
- High thermal stability,  
  to U.L. class N (180°C)
- Standardized 3 different electrical connectors  
  with IP ratings IP65, IP67 and IP6K9K  
  DIN/EN Plug (G) IP65 Form B, leadwires (L) IP65/IP67/IP6K9K,  
  Deutsch Plug (N) IP65/IP67/IP6K9K  
  others on request
- Mounting direction optional,  
  by symmetrical coil design
- Coil dimension = typification  
  Type 32-1329 = 32mm high (13 mm inside Ø, 29 mm outside Ø)
- Class UL 583 permitted coils available on demand

SPECIFICATIONS
Coil duty rating:  
100% continuous up to max.  
115% of Coil voltage at max. 60° C  
ambient temperature
Max. permitted temperature at coil:  
160° C  
Power intake:  
12 W at Imax and 20° C  
coil temperature
Windings:  
to U.L. class N (180°C)  
Outer shell:  
steel, zinc plated
Plug socket:  
Polyamide, black
(All data are valid for a coil mounted on valve)
Description
In general the coil is produced as DC coil.

Coil 12 DG01 – 32-1329

Basic model

Coil voltage
- 12 V DC
- 24 V DC
- 105 V DC (Only Connector type DG)
- 205 V DC (Only Connector type DG) (at AC voltage
Plug with suppressor diode necessary Mat. 2600582)

Type of voltage
D = DC voltage DC, directional valve

Coil connectors
- G = Plug to EN175301-803 Form B, IP rating IP65
- L = 2 leadwires, 0.75mm², 450mm (18") long
- IP rating IP65/IP67/IP6K9K
- N = Deutsch Plug, 2-poles, (DT04-2P) IP rating IP65/IP67/IP6K9K
Other coil connectors on request

Variation (depending on connector)
omission = Standard
01, 02... = e. g. suppressor diode, different cable lengths, etc...
others on request

Typification
32-1329 = main measures (Height, inner diameter, outer diameter)
The model code only serves for your information, available products see chart.

DIN plug according to EN 175-803
Form B for:
Connection to DC power
Part. No. 2600570

Connection to AC power
Part. No. 2600582
with integrated rectifier

Codes and corresponding Part No’s.

<table>
<thead>
<tr>
<th>Nominal voltage (Volt)</th>
<th>Nominal Coil resistance (Ohm)</th>
<th>Nominal current (Amp.)</th>
<th>Part No’s for connector</th>
<th>DIN leadwires Deutsch</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 V DC</td>
<td>12</td>
<td>12.2</td>
<td>2610160</td>
<td>2610151 2610149</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.98</td>
<td>with suppressor diode</td>
<td>2610268 2610267 2610210</td>
</tr>
<tr>
<td>24 V DC</td>
<td>12</td>
<td>48.7</td>
<td>2610161</td>
<td>2610162 2610150</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.49</td>
<td>with suppressor diode</td>
<td>2610269 2610268 2610205</td>
</tr>
<tr>
<td>115 V AC*</td>
<td>12</td>
<td>980</td>
<td>2610156*</td>
<td>-- --</td>
</tr>
<tr>
<td>230 V AC*</td>
<td>12</td>
<td>3700</td>
<td>2610159*</td>
<td>-- --</td>
</tr>
</tbody>
</table>

*If using AC voltage a plug (Part no. 2600582) with rectifier is necessary
Other connectors on request.

Annotation
The technical information in this brochure are relating to the operating conditions and applications.
At deviant applications and/or operating conditions please contact the technical dept.
Technical information are subject to technical modifications.

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Pressure Relief Valve
Ball type, direct acting
Cartridge-Minivalve – 350 bar
DB06A-01

FEATURES
- All exposed surfaces corrosion-proof
- All valve parts made of high-strength steel with hardened and ground components to ensure minimal wear and extend service life
- Quick response
- Adjustable under full system pressure
- Adjustable across the entire pressure range
- Various pressure ranges up to 350 bar
- Foreseen for the maximal pressure protection of the system

SPECIFICATIONS
Operating pressure: max. 350 bar
Nominal flow: up to 15 l/min
Pressure ranges: up to 125 bar
Pressure ranges: 0 up to 210 bar
Pressure ranges: 35 up to 350 bar
Leakage: leakage-free, < max. 0.35 cm³/min at 75% nominal pressure
Temperature range of operating fluid: Min. – 30°C up to max. +100°C
Ambient temperature range: Min. – 30°C up to max. + 60°C
Fluid: Hydraulic fluid to DIN 51524 T1 + T2
Viscosity range: min. 7.4 mm²/s up to max. 420 mm²/s
Filtration: Class 21 / 19 /16 according to ISO 4406 or cleaner
Installation: no orientation restrictions
Materials: Valve body: steel with hardened work surfaces
Ball: hardened steel
Seals: NBR (Standard) FKM (optional, temperature range -20°C up to +120°C)
Back-up rings: TPE-E
Cavity: FC06-2
Weight: 0.068 kg

FUNCTION
The Pressure relief valve DB06A is a direct acting, spring loaded ball valve. Its job is to limit the pressure in the system. The spring acts with a certain force on the ball and presses it on the valve seat. On the opposite side the system pressure works at port 1. If the hydraulic force is lower than the spring pressure the valve remains closed. Only if the force is higher, the valve opens and the flow will be let to port 2 (tank). If the system pressure is equal to the spring pressure the valve closes again.

Attention: Pressure at port 2 increases the opening pressure! If ports are interchanged or the pressure adjustment is higher than the operating pressure, the function of the valve is invalid.
**MODEL CODE**

**DB06A – 01 – C – N – 300 V 100**

**Basic model**
Pressure relief valve, direct acting

**Type**
01 = Standard

**Body & ports**
C = cartridge only
*versions in line bodies on request

**Seals**
N = NBR (Standard)
V = FKM (optional)

**Pressure range**
180 = 0 up to 125 bar (1800PSI)
300 = 0 up to 210 bar (3000PSI)
500 = 35 up to 350 bar (5000PSI)

**Adjustment option**
V = adjustable by tool

**Setting**
omission = 50% of max. Pressure
100 = factory preset, pressure in PSI (/10)
Other pressures on request

**Standard models**

<table>
<thead>
<tr>
<th>Name</th>
<th>Part No.</th>
<th>Material</th>
<th>Ports</th>
<th>Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>DB06A-01-C-N-180V</td>
<td>2610428</td>
<td>steel, zinc plated</td>
<td>G1/4</td>
<td>420 bar</td>
</tr>
<tr>
<td>DB06A-01-C-N-300V</td>
<td>2610235</td>
<td>Alu, anodized</td>
<td>G1/4</td>
<td>245 bar</td>
</tr>
<tr>
<td>DB06A-01-C-N-500V</td>
<td>2610155</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>other line bodies on request</td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

**Line bodies**

<table>
<thead>
<tr>
<th>Code</th>
<th>Part No.</th>
<th>Material</th>
<th>Ports</th>
<th>Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>FH062-SB2</td>
<td>3740528</td>
<td>steel, zinc plated</td>
<td>G1/4</td>
<td>420 bar</td>
</tr>
<tr>
<td>FH062-AB2</td>
<td>3741297</td>
<td>Alu, anodized</td>
<td>G1/4</td>
<td>245 bar</td>
</tr>
<tr>
<td>other line bodies on request</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Seal kits**

<table>
<thead>
<tr>
<th>Code</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seal kit-NBR</td>
<td>2610184</td>
</tr>
<tr>
<td>Seal kit-FKM</td>
<td>2610185</td>
</tr>
</tbody>
</table>

**PERFORMANCE**

Measured at 28 mm²/s and T oil = 38°C

**All dimensions in Inch (mm)**

**Subject to technical change**

**Tools**

<table>
<thead>
<tr>
<th>Code</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drill</td>
<td>2582046</td>
</tr>
<tr>
<td>Countersink</td>
<td>2582047</td>
</tr>
</tbody>
</table>

**CAVITY**

**FC06-2**

**DETAIL X (4 : 1)**

**Subject to technical modification**

**Abgerundet 06-2017**
Check Valve
Ball type
with pressure relief function
Cartridge-Minivalve – 350 bar
RV06B-01

FEATURES
- All exposed surfaces corrosion-proof
- All valve parts made of high-strength steel with hardened and ground components to ensure minimal wear and extend service life
- Combination of two functions in one valve
- Pressure ranges up to 350 bar
- Adjustable under full pressure
- Fast closing
- Protecting the system and the pump before pressure peaks

SPECIFICATIONS
Operating pressure: max. 350 bar
Nominal flow: max. 15 l/min
Pressure ranges (DB):
0 up to 125 bar
0 up to 210 bar
0 up to 350 bar
Cracking pressure (Check function): 0,35 bar
Leakage: leakage-free, < max. 0,35 cm³/min at 75% nominal pressure
Temperature range of operating fluid: Min. – 30°C up to max. +100°C
Ambient temperature range: Min. – 30°C up to max. +60°C
Fluid: Hydraulic fluid to DIN 51524 T1 + T2
Viscosity range: min. 7,4 mm²/s up to max. 420 mm²/s
Filtration: Class 21 / 19 / 16 according to ISO 4406 or cleaner
Installation: no orientation restrictions
Materials:
Valve body: steel with hardened work surfaces
Ball: hardened steel
Seals: NBR (Standard) FKM (optional, temperature range -20°C up to +120°C)
Back-up rings: TPE-E
Cavity: FC06-3
Weight: 0.027 kg

FUNCTION
The check valve RV06B is a direct acting, spring loaded ball valve with integrated pressure relief valve.
If there is no flow the spring holds the ball in closed position and blocks therefore flow from port 1 to 2. The check valve opens, if the pressure at port 2 is higher than the pressure at port 1 including the spring force. If the pressures rises in the inlet pipe over the pre-adjusted pressure the relief valve opens to tank. Any pressure at port 3 is additive to the relief pressure setting.
MODEL CODE

Basic model
Check valve, direct acting

Type
01 = Standard

Body & ports
C = cartridge only
*versions in line bodies on request

Seals
N = NBR (Standard)
V = FKM (optional)

Pressure ranges
180 = 0 up to 125 bar (3000 PSI)
300 = 0 up to 210 bar (3000 PSI)
500 = 0 up to 350 bar (5000 PSI)

Adjustment option
V = adjustable by tool

Setting
none = 50% of max. Pressure
100 = 69 bar (1000 PSI) – factory preset pressure

Standard models
Name Part No.
RV06B-01-C-N-300V 2610236
RV06B-01-C-N-500V 2610164
other types on request

Line bodies
Code Part No. Material Ports Pressure
FH063-SB2 3740562 steel, zinc plated G1/4 420 bar
FH063-AB2 3741286 Alu, anodized G1/4 245 bar
other line bodies on request

Seal kits
Code Part No.
Seal kit-NBR 2610186
Seal kit-FKM 2610187

PERFORMANCE
Measured at 28 mm²/s and T oil = 38°C

Pressure relief

Abgeändert 06-2017